

The attached Abstract of the Disclosure is supported throughout the specification.

No new matter is introduced by this preliminary amendment and Applicants respectfully request consideration of the pending claims.

A check in the amount of \$90.00 covering the extra claim fees is attached herewith. The Director of the U. S. Patent and Trademark Office is hereby authorized to charge any deficiency in any fees due with the filing of this paper or credit any overpayment in any fees to our Deposit Account No. 08-3040.

Respectfully submitted,

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## ABSTRACT OF THE DISCLOSURE

Serum-associated hypergastrinemia is treated by administration of gastrin active or passive immunization. An anti-gastrin immunogenic composition comprising a gastrin G17 or G34 peptide fragment which is amino acid spacer-linked to an immunogenic carrier, is administered so as to effectively neutralize the circulating gastrin hormone, and moreover, inhibit autocrine activity by progastrin such as Gly-extended G17, and amidated G17, in patients with pernicious anemia. Moreover, the method includes administration of a therapeutically effective amount of anti-G17 or anti-G34 antibodies which may be in humanized form. Finally, the method provides ameliorating treatment of hypergastrinemic effects of proton pump inhibitors or H<sub>2</sub> histamine receptor blocking agents or antagonists, in addition to treatment of hypergastrinemia caused by diseases such as pernicious anemia.